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1310 nm InGaAs PIN-TO

DI1X-8082-x Series

TYPE NAME: DI1X-8082-J

Product Description:

The LuxNet DI1A-808x-x PIN-TO is designed for telecom/datacom communication applications. This device packaged our high-speed 1310 nm PIN detector into a TO-46 header with cap window. The product is designed for optical communication systems with LD light source. The PIN-TO can be integrated with different types of ports engaged with a fiber connector to transmit the light from fiber through a receptacle into the PIN detector with high coupling efficiency.

Product Specifications:

Absolute Maximum Ratings ($T = 25^{\circ}C$):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T_{op}	°C	-40	85	
Storage Temperature	$T_{\rm stg}$	°C	-40	100	
Solder Reflow Temperature	$T_{\rm s}$	°C		260	10 seconds max.
Forward Current	I_{f}	mA		10	
Reverse Voltage	V_R	V		20	

Electro-Optical Characteristics ($T = 25^{\circ}C$, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Тур.	Max.	Test Condition
Active diameter	D	um	78	80	82	
Responsivity	R	A/W	0.85	0.90		$\lambda = 1310 \text{ nm}$
			0.90	0.95		$\lambda = 1550 \text{ nm}$
Dark Current	I_{D}	nA		0.15	1.0	$V_R = 5 \text{ V}$
Breakdown Voltage	V_{B}	V	20			$I_R = 1 \mu A$
Capacitance	C	pF		1.1	1.3	$V_R=2V$, $f=1MHz$
Rise/Fall Time	$ au_{ m r}/ au_{ m f}$	ps		145	170	$V_R=2V (20\%-80\%)$
	1 1					$R_L=50\Omega$
Cut-off Frequency	$f_{\rm C}$	GHz	1.85			$V_R=2V, R_L=50\Omega$

^{*} Specifications are subject to change without notice.

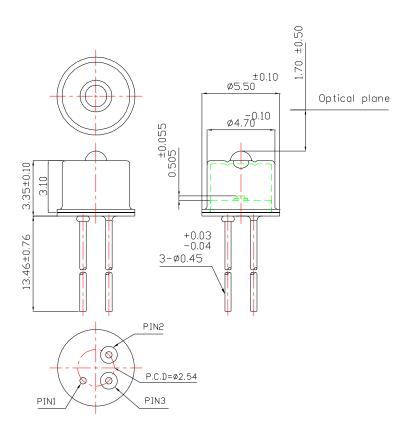
^{*} Screening per customer-specified reject limits is available.



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DI1X-8082-J (PIN-TO)

Dimensions: (mm) *All dimensions are nominal*



PINOUT

	DHX-8082-J
Pin Number	Function
1	GND
2	PD Anode (PD+)
3	PD Cathode (PD-)

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